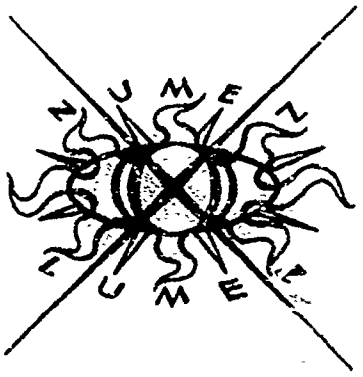
AD 743019

THE UNIVERSITY OF WISCONSIN



MATHEMATICS RESEARCH CENTER

DDC
RECEIVED
JUL 19 1972
B

Reproduced by
NATIONAL TECHNICAL
INFORMATION SERVICE
U S Department of Commerce
Springfield VA 22151

Address:

Mathematics Research Center
University of Wisconsin-Madison
Madison, Wisconsin 53706
U.S.A.

31

THE UNIVERSITY OF WISCONSIN
MATHEMATICS RESEARCH CENTER

Contract No.: DA-31-124-ARO-D-462

A PRELIMINARY BIBLIOGRAPHY OF PUBLICATIONS ON CHARACTERIZATIONS IN PROBABILITY AND STATISTICS

G. P. Patil, S. Kotz and M. T. Boswell

This document has been approved for public release and sale; its distribution is unlimited.

MRC Technical Summary Report #1124
May 1972

Received January 18, 1972

DDC
RECEIVED
JUN 19 1972
B

Madison, Wisconsin 53706

I

AR 70-31 Unclassified

Security Classification

DOCUMENT CONTROL DATA - R & D

(Security classification of title, body of abstract and indexing annotation must be entered when the overall report is classified)

1. ORIGINATING ACTIVITY (Corporate author) Mathematics Research Center University of Wisconsin, Madison, Wis. 53706	2a. REPORT SECURITY CLASSIFICATION Unclassified 2b. GROUP None

3. REPORT TITLE

A PRELIMINARY BIBLIOGRAPHY OF PUBLICATIONS ON CHARACTERIZATIONS IN PROBABILITY AND STATISTICS

4. DESCRIPTIVE NOTES (Type of report and inclusive dates)

Summary Report: no specific reporting period.

5. AUTHOR(S) (First name, middle initial, last name)

G. P. Patil, S. Kotz and M. T. Boswell

6. REPORT DATE	7a. TOTAL NO. OF PAGES	7b. NO. OF REFS
May 1972	35	368

8a. CONTRACT OR GRANT NO. Contract No. DA-31-124-ARO-D-462	9a. ORIGINATOR'S REPORT NUMBER(S) 1124
b. PROJECT NO. None	
c.	9b. OTHER REPORT NO(S) (Any other numbers that may be assigned this report) None
d.	

10. DISTRIBUTION STATEMENT

Distribution of this document is unlimited.

11. SUPPLEMENTARY NOTES	12. SPONSORING MILITARY ACTIVITY
None	Army Research Office-Durham, N.C.

13. ABSTRACT

Major probability and statistics journals together with major abstracting journals were scanned for relevant entries. Papers discussing characterizations or such structural properties as may likely lead to characterizations have been included. The present version of the bibliography could be made more complete, comprehensive and valuable in many ways. Continued effort in this direction is under way.

DD FORM 1 NOV 68 1473

Unclassified

Security Classification

AGO 5096A

II

A PRELIMINARY BIBLIOGRAPHY OF PUBLICATIONS ON CHARACTERIZATIONS IN PROBABILITY AND STATISTICS

G. P. Patil[1], S. Kotz[2] and M. T. Boswell[1]

-A-

Aczel, J. (1956)
Some general methods in the theory of factorial equations of one variable. New applications of functional equations (Russian). Uspehi Mat. Nauk, 11, 3-68.

Aczel, J. (1961)
Vorlesungen über Funktionalgleischungen und ihre Anwendungen. Birkhäuser, Basel.

Aczel, J., and Zubrzycki, S. (1956)
Sur un problème de la théorie des nombres lié à la distribution binomiale. Colloq. Math., 4, 56-67.
Review: MR 17 (1956), 944.

Ahuja, J. C. (1969)
On certain properties of the generalized Gompertz distribution. Sankhyā, Ser. B, 31, 541-543.

Alam, K. (1970)
Monotonicity properties of the multinomial distribution. Ann. Math. Statist. 41, 315-317.

Alam, K. (1970)
A monotonicity property of the distribution of the studentized smallest chi-square. Ann. Math. Statist. 41, 318-320.

Alda, V. (1952)
A note on Poisson's distribution (Russian, English summary). Czechoslovak Math. J., 2, (77), 243-246.
Review: MR 15 (1954), 634.

Alda V. (1953)
Completeness of polynomals for Poisson's distribution (Russian, English summary). Czechoslovak Math. J., 3(87), 83-85.

Amato, V. (1963)
On the relation between a random variable and its reciprocal (Italian). Statistica, 23, 565-73.
Review: STMA 7 (1966), 215.

---

[1] The Pennsylvania State University, University Park, Penn. and The Mathematics Research Center, University of Wisconsin, Madison, Wisc.

[2] Temple University, Philadelphia, Penn.

Sponsored by the United States Army under Contract No.: DA-31-124-ARO-D-462.

Ambarcumjan, R. V. (1967)
On the characterization of Poisson processes in terms of expandability of a point process in independent recurrent components (Russian, Armenian summary). Akad. Nauk Armjan SSR Dokl. 44, 8-13
Review: MR 35 (1968) #2377.

Ambarcumjan, R. V. (1967)
On a characterization of Poisson point fields in terms of decomposability of a point field into a bounded number of independent components (Russian, English summary). Izv. Akad. Nauk Armjan SSR Ser. Mat. 2, 57-65.
Review: MR 35 (1968) #2378.

Anderson, Mary Ruth V. (1966)
Characterizations of certain distributions of the exponential class. Ph. D. dissertation, Univ. of Iowa, 27 pp.
Review: R. Z. (1968), 3B...

Anderson, Mary Ruth V. (1971)
A characterization of multivariate distributions. To appear Ann. Math. Statist. (April).

-B-

Banerjee, D. P. (1951)
On some new recurrence formulae for cumulants of multivariate multinomial distributions. Proc. Indian Acad. Sci., 34, 20-23.
Review: MR 13 (1952), 665; ZBL 43 (1952), 339.

Banerjee, D. P. (1959)
On some theorems on Poisson distribution. Proc. Nat. Acad. Sci, India Sect. A, 28, 30-33.
Review: MR 26 (1963), 1066.

Bardwell, G. E. (1960)
On certain characteristics of some discrete distributions. Biometrika, 47 437-75.
Review: ZBL 114 (1965), 96; IJA 2 (1961), 460.

Bartfai, P. (1966)
Grenzverteilungssätze auf der kreisperipherie und auf kompakten Abelschen Gruppen. Studia Sci. Math. Hungar 1 (1966), 71-85.
Review: MR 34 (1967) # 5135.

Basu, A. P. (1965)
On characterizing the exponential distribution by order statistics. Ann. Inst. Statist. Math., Tokyo 17, 93-96.
Review: STMA (1967) 8, 8/5B

Basu, D. (1953)
On the independence of linear functions of independent chance variables. Bull. Inst. Internat. Stat., 33, 83-96.
Review: MR (1955), #937.

Basu, D. (1956)
A note on the multivariate extension of some theorems related to the univariate normal distribution. Sankhyā, 17, pp. 221-224.
Review: MR (1958) #471; R. Z. (1957) #3980.

Basu, D. (1955)
On statistics independent of a complete sufficient statistic. Sankhya, 15, 377-380.
Review: MR (1956), #640.

Basu, D., and Khatri, C. G. (1969)
On some characterizations of statistics. Sankhyā Ser. A, 31, 199-208.
Review: STMA (1970), 11/455; 11/456.

Basu, D., and Laha, R. G. (1954)
On some characterizations of the normal distribution. Sankhyā, 13, 359-362. (Addendum, 14, 180).
Review: MR (1955), #51.

Bechhofer, R. E., and Sobel, M. (1954)
A single-sample multiple decision procedure for ranking variances of normal populations. Ann. Math. Statist. 25, 273-289.

Bernstein, S. (1941)
Sur une propriété caractéristique de la loi de Gauss. Trans. Leningrad Polytech. Inst., 3, 21-22.

Bildikar, Sheela and Patil, G. P. (1968)
Multivariate exponential-type distributions. Ann. Math. Statist., 39, 1316-1326.

Blischke, W. R. (1965)
Mixtures of discrete distributions. Classical and Contagious Discrete Distributions, Ed. G. P. Patil, Statistical Publishing Society, Calcutta, and Pergamon Press, pp. 351-372.

Blum, J. R. (1956)
On a characterization of the normal distribution. Skand. Aktuarietidskr, 59-62.

Blum, J. R., and Rosenblatt, M. (1959)
On the structure of infinitely divisible distributions. Pacific J. Math., 9, 1-7.
Review: ZBL 85 (1961), 129.

Bochner, S. (1936)
A converse of Poisson's theorem in the theory of probability. Ann. of Math., 37, 816–22.

Boge, W. (1964)
Characterization of successively infinitely divisible probability distributions on locally compact groups (German). Zeit. Wahrscheinlichkeitsth., 2, 380-394.
Review: STMA, 6 (1965), 382.

Bohman, Harold (1963)
Two inequalities for Poisson distributions. Skand. Aktuarietidskr., 46, 47-52.
Review: MR 32 (1966), 302; STMA 6 (1965), 48; ZBL 123 (1965), 360.

Bolger, Edward M. (1964)
Exponential distributions. Ph. D. Thesis, Pennsylvania State University, pp. 93.

Bolger, Edward M. (1966)
The sum of two independent exponential-type random variables. Pacific J. Math., 18, 31-35.

Bolger, Edward M., and Harkness, W. L. (1965)
Characterizations of some distributions by conditional moments. Ann. Math. Statist., 36, 703-705.
Review: MR 30 (1965), 993.

Bolger, Edward M., and Harkness, W. L. (1966)
Some characterizations of exponential-type distributions. Pacific J. Math., 16, 5-11.

Bol'shev, L. N. (1965)
On a characterization of the Poisson distribution and its statistical applications (Russian, English summary). Teor. Verojatnost. i Primenen., 10, 489-499.

Bol'shev, L. N. (1965)
On a characterization of the Poisson distribution and its statistical applications. Theor. Probability Appl., 10, 446-456.

Borges, Rudolf (1966)
A characterization of the normal distribution. A note on a paper of Kozin. Z. Wahrscheinlichkeitstheorie und Verw. Gebiete, 5, 244-246.
Review: STMA (1967) 8/554; MR 34, (1967) #6823.

Borges, R., and Pfanzagl, J. (1963)
A characterization of the one-parameter exponential family of distributions by monotonicity of likelihood ratios. Z. Wahrscheinlichkeitstheorie, 2, 111-117.

Borges, R., and Pfanzagl, J. (1965)
One-parameter exponential families generated by transformation groups. Ann. Math. Statist., 36, 261-271.

Braumann, P. (1959)
Symmetric infinitely divisible probability law (German). Rev. Fac. Ciencias Lisboa, A, 7, 255-262.
Review: IJA 1 (1960), 349.

Banerjee, D. P. (1957)
Characterization of the gamma function. Proc. Nat. Acad. Sci. India A26, 112-116.
Review: R. Z. 5 (1958) No. 7914.

-C-

Cacoullos, T. (1967)
Characterizations of normality by constant regression of linear statistics on another linear statistics. Ann. Math. Statistics, 38, 1894-1898.
Review: MR (1968) 3393.

Cacoullos, T. (1967)
Some characterizations of normality. Sankhyā, Ser. A, 29, 399-404.
Abstract: Ann. Math. Statist., 37, (1966), p. 1422.

Cacoullos, T., and Sobel, M. (1966)
An inverse-sampling procedure for selecting the most probable event in a multinomial distribution. In Multivariate Analysis I, (P. R. Krishnaiah ed.), pp. 423-455, Academic Press, New York.

Calinski, T. (1966)
On the distribution of the F-type statistics in analysis of a group of experiments. J. Roy. Statist. Soc., Ser. B. 28, 526-542.
Review: MR 35 (1968) #1104.

Cansado, E. (1951)
A study of bivariate distributions (Spanish, English summary). Trabajos Estadist., 2, 149-178.

Casteliani, M. (1950)
On multinomial distributions with limited freedom: a stochastic genesis of Pareto's and Perason's curves. Ann. Math. Statist., 21, 289-293.
Review: MR 11 (1950), 673; ZBL 41 (1952), 461.

Castaldi, L. (1959)
A property of Poissonian distributions. Rend. Sem. Fac. Sci. Univ. Cagliari, 29, 220-222.
Review: MR 22 (1961), 1457; ZBL 95 (1962), 128; IJA 3 (1962), 516.

Cherkasov, I. D. (1966)
One-dimensional diffusion processes in variable regions and their equivalence to locally-Wiener processes (Russian). Izv. Vyss. Ucebn. Zaved. Matematika 53, 139-149.
Review: MR 34 (1967) #6755.

Chaddha, R. L., and Six, F. B. (1967)
Estimation of location and scale parameters in β-type II distribution. BTL MM 67-3155-13, Bell Telephone Lab., Holmdel, N. J.

Chaddha, R. L., and Tischendorf, J. A. (1968)
Parameter estimation for the Beta-II distribution. Technical Report, Bell Telephone Lab., Holmdel, N. J.

Chambers, C. (1967)
Extension of tables of percentage points of the largest variance ratio s^2_{max}/s^2_0. Biometrika 54, 225-227.

Chandrasekhar, S. (1949)
On a class of probability distributions. Proc. Cambridge Philos. Soc., 45, 219-224.
Review: MR 10 (1949), 464.

Chatterji, S. D. (1963)
Some elementary characterizations of the Poisson distribution. Amer. Math. Monthly, 70, 858-864.
Review: MR 70 (1964), 130; ZBL 117 (1965), 365.

Chiang, Chin Long (1960)
A stochastic study of the life table and its applications: I. Probability distributions of the biometric functions. Biometrics, 16, 618-635.
Correction, 17, 669.
Review: ZBL 104 (1964), 139; IJA 4 (1963), 738.

Chistyakov, G. P. (1970)
Generalization of H. Cramer's and Yu. V. Linnik-V. P. Skitovich's theorems. Theor. Prob. and Appl. 15, 345-380.
Review: R. Z. 17 (1970) No. 10B10

Chung, K. L. (1954)
Sur les lois de probabilité unimodales. Comp. Rend. Acad. Sci., 236 583-584.
Review: R. Z. (1954) No. 347.

Connor, R. J., and Mosimann, J. E. (1969)
Concepts of independence for properties with a generalization of the Dirichlet distribution. JASA, 64, 194-206.

Crawford, G. B. (1965)
Characterization of Geometric and exponential distributions. Math. Note No. 421, Math. Res. Lab. Boeing Scientific Res. Lab.

Crawford, Gordon B. (1966)
Characterization of geometric and exponential distributions. Ann. Math. Statist., 37, 1790-1795.

Crow, E. L. (1958)
A property of additively closed families of distributions. Ann. Math. Statist., 29, 892-897.
Review: ZBL 88(1961), 115.

Csáki, E., and Vincze, I. (1963)
On some distributions connected with the arcsine law (Russian summary). Magyar Tud. Akad. Mat. Kutató Int. Közl., 8, 281-291.

Császár, A. (1956)
Sur une caractérisation de la répartition normale de probabilités. Acta Math. Acad. Sci. Hung., 7, 352-382.
Review: R. Z. (1957) #2228.

Csörgö, M., and Seshadri, V. (1969)
Characterizing the Gaussian and exponential law via mappings onto the unit interval. Z. Wahrscheinlichkeitstheorie und Verw. Gebeite.

-D-

Daboni, L. (1959)
A property of Poisson distributions (Italian). Boll. Un. Mat. Ital., 14, 318-320.
Review: IJA 2 (1961), 251.

Dall'aglio, G. (1961)
On bivariate distributions with assigned margins, subject to some limitations (Italian). Giorn. Ist. Ital. Attuari., 24, 94-108.
Review: IJA 4 (1963), 80.

Daly, J. (1946)
On the use of the sample range in an analogue of Student's t-test. Ann. Math. Statist., 17, 71-76.
Review: MR 7, p. 464.

Darmois, G. (1951)
Sur diverses proprietes characteristiques de la loi de probabilite de Laplace-Gauss. Buil. Int. Stat. Inst. 33, 79-82.

Darmois, G. (1953)
Analyse générale des liaisons stochastiques etude particuliere de l'analyse factorielle lineaire. Rev. Inst. Internat. Stat., 21, 2-8.

Denny, J. L. (1967)
Sufficient conditions for a family of probabilities to be exponential. Proc. Nat. Acad. Sci. U.S.A. 57, 1184-1187.
Review: MR 35 (1968) #2396.

Dharmadhikari, S. W. (1968)
A uniqueness result for compound normal and compound exponential distributions. Ann. Inst. Stat. Math. 20, 327-329.
Review: ZBL 187 (1970) 167; STMA 11, 11/486.

Dickey, James M. (1967)
Matricvariate generalizations of the multivariate t distribution and the inverted t distribution. Ann. Math. Statist. 38, 511-518.
Review: MR 34 (1967) #8561.

Doss, D. C. (1969)
Characterizations of the linear exponential family in a parameter by recurrence relations for functions of cumulants. Ann. Math. Statist., 40, 1721-1727.

Drenick, R. F., and Nesbeda, P. (1953)
On a class of optimum linear predictors. (Abstract). Ann. Math. Statist., 24, p. 497.

Dubey, S. D. (1966)
Compound Pascal distributions. Ann. Inst. Statist. Math., 18, 357-365.
Review: MR 34 (1967) #8521.

Dubey, S. D. (1966)
Characterization theorems for several distributions and their applications. Ind. Math., 16, 1-22.
Review: MR 40, No. 3635.

Dwass, Meyer and Teicher, Henry (1957)
On infinitely divisible random vectors. Ann. Math. Statistics, 28, 461-470.
Review: MR (1958) #986.

Dynkin, E. B. (1950)
On sufficient and necessary statistics for families of probability distributions (Russian). Dokl. Akad. Nauk SSSR, 75, 161-164.

Dynkin, E. B. (1951)
Necessary and sufficient statistics for a family of probability distributions. Uspehi. Mat. Nauk (N. S.) 6, 68-90. Also appears in: Select. Trancl. Math. Statist. and Prob., 1, 17-40.

-E-

Eaton, M. (1966)
Characterization of distributions by the identical distribution of linear forms. I. Appl. Prob., 3, 481-494.
Review: MR (1967) No. 2038.

Eaton, Morris L. (1967)
Some optimum properties of ranking procedures. Ann. Math. Statist., 38, 124-137.
Review: MR (1967) 5238.

-F-

Feller, W. (1966)
An Introduction to Probability Theory and Its Applications, Volume II, pp. 77-80, John Wiley, N. Y.

Ferguson, T. S. (1959)
On the determination of joint distributions from the marginal distributions of linear combinations.
Abstract: Ann. Math. Statist., 30, (1959), 255.

Ferguson, T. S. (1962)
Location and Scale parameters in exponential families. Ann. Math. Statist., 33, 986-1001.

Ferguson, T. S. (1963)
Location and scale parameters in exponential families of distributions. Ann Math. Statist., 34, 1603-

Ferguson, T. S. (1964)
A characterization of the exponential distribution. Ann. Math. Statist., 35, 1199-1207.
Review: MR 29, No. 5, (May 1965) #5322.

Ferguson, T. S. (1965)
A characterization of the geometric distribution. Amer. Math. Monthly, 72, No. 3, 256-260.
Abstract: Ann. Math. Statist., 33, 1207
Review: R. Z. (1965) #10B7.

Ferguson, T. S. (1967)
On characterizing distributions by properties of order statistics. Sankhyā, Ser. A, 29, Part 3, 265-278.

Féron, R., and Fourgeaud, C. (1952)
Quelques propriétés caractéristiques de la loi de Laplace-Gauss.
Publ. Inst. Statist. Univ. Paris 1, 44-49.

Finney, D. J. (1941)
The joint distribution of variance ratios based on a common error mean square. Ann. Eugenics, 11, 136-140.

Fisk, P. R. (1970)
A note on a characterization of the multivariate normal distribution.
Ann. Math. Statist., 41, 486-494.

Fisz, M. (1958)
Characterization of some probability distributions. Skand. Aktuarietidsk. (1958-1959) No. 1-2, 65-67.

Fisz, M. (1962)
Infinitely divisible distributions: Recent results and applications.
Ann. Math. Statist., 33, 68-84.

Fisz, M., and Urbanik, K. (1956)
Analytical characterization of a composed, non-homogeneous Poisson process. Studia Math., 15, 328-36.
Review: ZBL 70 (1957), 365.

Flatto, Leopold & Scheinok, P. A. (1967)
Infinitely divisible distributions on cyclic groups. Amer. Math. Monthly, 74, 255-261.
Review: MR 35 (1968) #1054.

Fox, Charles (1965)
A family of distributions with the same ratio property as normal distribution. Canad. Math. Bull. 8, 631-635.
Review: STMA (1967) 8/867; MR #6507; R. Z. #9B13.

Fraser, D. A. S. (1966)
Sufficiency for regular models. Sankhyā, Ser. A., 28, 137-144.
Review: MR 35 (1968) #1118.

-G-

Geary, R. C. (1936)
Distribution of "student's" ratio for non-normal samples. JRSS Suppl., Ser. B, 3, 178-184.

Ghosh, J. K. (1969)
Only linear transformations preserve normality. Sankhyā, Ser. A, 31, 309-312.

Ghurye, S. G. (1960)
Characterization of some location and scale parameter families of distributions. Contrib. to Prob. and Statist., Stanford, Calif. Univ. Press, 203-215.
Review: R. Z. (1962), 3B46.

Ghurye, S. G., and Olkin, I. (1962)
A characterization of the multivariate normal distribution. Ann. Math. Statist., 33, 533-541.

Goldman, A. J. (1968)
Fractional container-loads and topological groups. Op. Res., 16, 1218-1221.

Goodman, L. A. (1952)
On the Poisson-gamma distribution problem. Ann. Inst. Statist. Tokyo, 3, 123-125.

Goodspeed, F. M. (1950)
The relation between functions satisfying a certain integeral equation and general Watson transforms. Canad. J. Math., 2, 223-237.
Review: MR 11 #661.

Govindarajulu, Z. (1966)
Characterization of the exponential and power distributions. Skand. Aktuarietidsk., 49, 132-136.

Govindarajulu, Z. (1966)
Characterization of normal and generalized truncated normal distributions using order statistics. Ann. Math. Statist., 37, 1011-1015.
Review: STMA (1968) 9/645 and 9/646; MR 35 (1968) #1055.

Gray, H. L. ; Odell, P. L. (1966)
On sums and products of rectangular variates. Biometrika, 53, 615-617.
Review: MR 35 (1968) #2387.

Griffiths, R. C. (1969)
A class of infinitely divisible bivariate Gamma distributions. Sankhyā, Ser. A, 31, 473-476.
Review: STMA (1970) 11/1149.

Grigelionis, B. (1966)
Composition of integer-valued random measures (Russian, English summary). Lilovsk. Mat. Sb., 6, 359-363.
Review: MR 34 (1967) #6838.

Guerrieri, G. (1965)
Some characteristic properties of the exponential distributions (in Italian). G. Economisti, 24, 427-437.
Review: STMA (1967), 8/232.

Gupta, B. N. (1970)
A characterisation of the normal distribution. Trab de Est., 21, 35-38.

Gupta, S. S., and Nagel, K. (1967)
On selection and ranking procedures and order statistics from the multinomial distribution. Sankhyā, 29B, 1-33.

Gupta, S. S., and Sobel, M. (1960)
Abstract No. 14: On the distribution of the largest of the several chi-squares to an independent chi-square with application to ranking problems. Ann. Math. Statist., 31, 815.

Gupta, S. S., and Sobel, M. (1962)
On the smallest of several correlated F statistics. Biometrika, 49, 509-523.

Gupta, S. S., and Sobel, M. (1962)
On selecting a subset containing the population with the smallest variance. Biometrika, 49, 495-507.

-H-

Haight, Frank A. (1967)
Handbook of the Poisson distribution. John Wiley & Sons, Inc.
Review: MR 34(1967) #8522.

Hall, W. J., and Simons G. (1969)
On a characterization of the Gamma distribution. Sankhyā, Ser. A, 31, 385-390.
Review: STMA (1970) 11/1150.

Has'minskii, R. Z. (1967)
Necessary and sufficient conditions for asymptotic stability of linear stochastic systems (Russian, English summary). Theor. Verojatnost. i Primenen, 12, 167-172. English Trans: Theor. Prob. Appl., 12 (1967) 144-147.
Review: MR 35(1968) #2345.

Hayakawa, Takesi (1966)
On the distribution of a quadratic form in multivariate normal sample. Ann. Inst. Statist. Math., 18, 191-201.
Review: MR 35(1968) #1107.

Heyde, C. C. (1970)
Characterization of the normal law by the symmetry of a certain conditional distribution. Sankhyā, 32, Part 1, 115-118.

Hogg, R. V. (1964)
Applications of the characterizations of distributions to tests of fit, randomness and independence.
Abstract: Ann. Math. Statist., 35, 1837

Hogg, R. V., and Craig, A. T. (1956)
Sufficient statistics in elementary distribution theory. Sankhyā, 17, 209-216.
Review: MR (1958), 19, p. 188

-I-

Ikeda, N., and Morimoto, H. (1958)
Notes on some relations between the distributions and sufficient stability. Mem. Fac. Sci. Kyusyu Univ., Ser. A, 12, 12-21.
Correction, 13(1959)
Review: MR (1959) 20, #2808.

Isii, K. (1958)
Note on a characterization of unimodal distributions. Ann. Inst. Statist. Math. Tokyo, 9, 173-184.

-J-

Jogdeo, Kumar (1969)
Characterization of independence in bivariate families with regression dependence. Bull. Int. Statist. Inst., 42, 313-316.
Review: R. Z. (1970) 9B/07.

Jogdeo, Kumar (1970)
An inequality for strict unimodal function with an application to a characterization of independence. Sankhyā Ser. A, 32, 405-410.

Johnson, N. L. (1957)
Uniqueness of a result in the theory of accident proneness. Biometrika, 44, 530-531.
Review: MR (1958) 1243.

Johnson, N. L., and Young, D. H. (1960)
Some applications of two approximations to the multinomial distribution. Biometrika, 47, 463-469.

-K-

Kabe, D. G. (1969)
On characterizing the multivariate linear exponential distribution. Canadian Math. Bull., 12, 567-572.
Review: Zlb. (1970), 9B4; STMA (1970), 11/1154.

Kac, M. (1939)
A characterization of the normal distribution. Am. J. Math., Vol. 61, pp. 726-728.

Kagan, A. M. (1966)
Two remarks on characterization of sufficiency (Russian). Limit Theorems Statist. Inference Izdat. "Fan", Tashkent, pp. 60-66.
Review: MR 34 (1967) #6905.

Kagan, A. M. (1969)
Estimation theory for families with location and scale parameters and for exponential families (Russian). Trudy Matematicheskogo Institute Steklova, 104, 19-86.

Kagan, A. M.; Linnik, Yu. V., and Rao, C. R. (1965)
On a characterization of the normal law based on a property of the sample average. Sankhyā, 27, 405-406.
Review: STMA (1969) 10/406.

Kagan, A. M., and Shalaevsky, O. V. (1967)
Characterization of the normal law by the property of partial sufficiency. Theor. Veroyatn. i Primen., 12, 567-569.
Review: R. Z. (1968) #7B61.

Kagan, A. M., and Shalaevsky, O. V. (1967)
Characterization of the normal distribution by a property of a non-central x^2 distribution. Lietuvos Matematikos Rinkinys, 7, 57-58.
Review: MR (1968), #3394.

Kagan, F. M. (1967)
Characterization of Gamma-distribution by statistical properties of sample mean. Izvest. Akad. Nauk Uzbek. SSR Seriya Fiziko-Matematich. Nauk No. 4, 6-9.

Kagan, F. M. (1968)
Some theorems on the characterization of the gamma distribution and those near it. Litovsk. Mat. Sb., 8, 265-287.
Review: MR (1970), No. 3549.

Kale, B. K. (1961)
A characterisation of the moments of a random variable assuming only a finite number of values. J. Indian Soc. Agri. Statist., 12, 175-181.
Review: IJA 3 (1962), 150

Kaplansky I. (1943)
A characterization of the normal distribution. Ann. Mat. Statist., 14, 197-198.
Review: MR (1943), 4, 279; ZBL (1957), 60, 285.

Katti, S. K. (1965)
Infinite divisibility of discrete distributions. FSU Statist. Rep. M105, Dept. Statist., Florida State Univ., pp. 20

Kawata, T., and Sakamoto, H. (1949)
On the characterization of the normal population by the independence of the sample mean and the sample variance. J. Math. Soc. Japan, 1, 111-115.
Review: MR (1950), #188.

Kelker, D., and Matthes, T. K. (1970)
A sufficient statistics characterization of the normal distribution. Ann. Math. Statist., 41, 1086-1090.

Kemp, Adrienne W. ; Kemp, C. D. (1966)
An alternative derivation of the Hermite distribution. Biometrika, 53, 627-628.
Review: MR 35(1968) #2389.

Kemp, C. D. ; Kemp, Adrienne W. (1965)
Some properties of the "Hermite" distribution. Biometrika, 52, 381-394.
Review: MR 34(1967) #8526.

Keston, Harry, and Morse, Norman (1959)
A property of the multinomial distribution. Ann. Math. Statist., 30, 120-127.
Review: MR 21(1960), 837; IJA 1 (1959), 191.

Khatri, C. G. (1959)
On conditions for the forms of type XAX' to distributed independently or to obey Wishart distribution. Calcutta Stat. Assoc. Bull. 8, (1959), 162-168.
Review: MR 21(1960) #4490.

Khatri, C. G. (1962)
A characterization of the inverse Gaussian distribution. Ann. Math. Statist., 33, 800-803.

Khatri, C. G., and Rao, C. R. (1968)
Solutions to some functional equations and their applications to characterization of probability distributions. Sankhyā, Ser. A, 30, (1968), 167-180.
Review: MR (1969), No. 6692 ; STMA (1970) 11/434.

Khatri, C. G., and Rao, C. R. (1968)
Some characterizations of the gamma distribution. Sankhyā, Ser. A, 30, 157-166.
Review: MR 38(1969), 5319.

Khratri, C. G. (1959)
On certain properties of power-series distributions. Biometrika, 46, 486-490.

Kingman, Albert (1969)
Distribution of pseudolinear and pseudoquadratic forms with characterizations of the normal distribution. Ph. D. dissertation, Colorado State U.

Konijn, H. S. (1957)
A class of two-dimensional random variables and distribution functions. Sankhyā, 18, 167-172.
Review: R. Z. (1959), p. 142 #1733.

Koopman, B. O. (1950)
Necessary and sufficient conditions for Poisson's distribution. Proc. Amer. Math. Soc., 1, 813-823.
Review: MR 12(1951), 424 ; ZBL (1952), 249

Koopman, L. H. (1936)
On distributions admitting a sufficient statistic. Trans. Amer. Math. Society, 39, 399-409.

Kosambi, D. D. (1949)
Characteristic properties of series distributions. Proc. Nat. Inst. Sci. India, 15, 109-113.
Review: MR 11(1950), 42.

Kotlarski, I. I. (1962)
On pairs of independent variables whose quotients follow some known distribution. Colloquium Mathematicum, 9, 151-162.
Review: MR (1962) #A3730.

Kotlarski, I. I. (1964)
On bivariate random variables where the quotient of their coordinates follows some known distribution. Ann. Math. Statist., 35, 1673-1684.
Review: MR 29(1965) #5326.

Kotlarski, I. I. (1965)
On pairs of independent random variables whose product follows the gamma distribution. Biometrika, 52, 289-294.
Review: MR 34(1967) 8447.

Kotlarski, I. I. (1966)
On some characterization of probability distributions in Hilbert spaces. Ann. Mat. Pura Appl., 74. 129-134.
Review: MR 34(1967) #6828.

Kotlarski, I. I. (1966)
On characterizing the normal distribution by Student's law. Biometrika, 53, 603-606.
Review: MR 35(1968) #2315.

Kotlarski, I. I. (1966)
On characterizing the chi square distribution by the Student law. JASA. 61, 976-981.
Review: MR 34 (1967) #5189.

Kotlarski, I. I. (1966)
On characterization the gamma and the normal distribution. Biometrika, 51, 25-32.
Review: MR (1967) No. 3617.

Kotlarski, I. I. (1969)
Una caratterizzazione della distribuzione gamma per mezzo di statistiche indipendenti. Rendiconti di Matematica, 3-4, 2, Ser. VI, 1-5.

Kotlarski, I. I. (1969)
On characterization of probability distributions by means of independent statistics. Ann. Mat. Pura, ed Appl., 83. 253-260.
Review: R. Z. 17 (1970) 9B106.

Kotlarski, I. I. (1970)
On a characterization of probability distributions by the joint distribution of some of their linear forms. (Abstract) Ann. Math. Statist., 41, 1793.

Kotlarski, I. I. (1970)
On some characterization of probability distribution. (Abstract) Ann. Math. Statist., 41, 1147-1148.

Kotz, Samuel ; Johnson, N. L. ; Boyd, D. W.
Series representations of distributions of quadratic forms in normal variables. I. Central case. II. Non-central case. Ann. Math. Statist., I. 38 (1967), 823-837 ; II. 38(1967), 838-848.
Review: MR 35 (1968) #2390 a &b.

Kovalenko, I. N. (1966)
Statistical characterization of symmetric stable distribution laws. (Russian). Dokl. Akad. Nauk SSSR 170, 31-33.
Review: MR 34(1967) #5130.

Krishnaiah, P. R. (1969)
Simultaneous test procedures under general MANOVA Models. In Multivariate Analysis II, (P. R. Krishnaiah ed.), pp. 121-143. Academic Press, N. Y.

Krishnaiah, P. R. and Armitage, J. V. (1969)
On the multivariate F-distribution. In Essays in Probability and Statistics, (R. C. Bose et al. eds.), University of North Carolina Press, Chapel Hill, N. C.

Krishnaji, N. (1970)
Characterization of the Pareto distribution through a model of under-reported incomes. Econometrika, 38. 254-257.

Krishnaji, N. (1970)
A characteristic property of the Yule distribution. Sankhyā, 32, 343-346.

Krishnaji, N. (1970)
A note on a characterizing property of the exponential distribution. Ann. Math. Statist., 42, 361-362.

Kubik. L. (1962)
A characterization of the class L of probability distributions. Studia Math., 21, No. 2. 245-252.
Review: R. Z. (1962), 11B7 ; MR (1963) #1916.

Kuczma, Marek (1968)
Functional equations in a single variable, PWN - Polish Scientific publishers, Warszawa.

-L-

Laha, R. G. (1953)
On an extension of Geary's theorem. Biometrika, 40, pp. 228-229.
Review: MR (1954) #725.

Laha, R. G. (1954)
On a characterization of the Gamma distribution. Ann. Math. Statist., 25, 784-787.
Review: MR (1955) p. 269 ; R. Z. (1956) #3169 ; ZBL (1955) 56, 358.

Laha, R. G. (1955)
On a characterization of the multivariate normal distribution. Sankhyā, 14, 367-368.
Review: MR (1955) #940.

Laha, R. G. (1956)
On stochastic independence of a homogeneous quadratic statistic and of the mean (Russian). Vestnik Leningrad. Univ. 11 (1956), No. 1, 25-32.
Review: MR (1956), p. 871.

Laha, R. G. (1956)
On some properties of the normal and gamma distributions. Proc. Am. Math. Soc. 7, 172-174.
Review: R. Z. (1957) #.738.

Laha, R. G. (1956)
On a characterization of the stable law with finite expectation. Ann. Math. Statist., 27, 187-195.
Review: R. Z. (1959), #1737 ; ZBL (1957), 70, p. 362.

Laha, R. G. (1957)
On a characterization of the normal distribution from properties of suitable linear statistics. Ann. Math. Statist., 28, 126-139.
Review: MR 18, (1957) p. 768.; R. Z. (1958) #5978 ; ZBL 80 (1959), p. 133.

Laha, R. G. (1958)
An example of a nonnormal distribution where the quotient follows the Cauchy law. Proc. Nat. Acad. Sci. U. S. A., 44, 222-223.
Review: MR 19, 1201 ; R. Z. #2922.

Laha, R. G. (1959)
On the laws of Cauchy and Gauss. Ann. Math. Statist., 30, 1165-1174.
Review: MR 21 (1960) #7556.

Laha, R. G. (1959)
On a class of distribution functions where the quotient follows the Cauchy law. Trans. Amer. Math. Soc., 93, 205-215.
Review: R. Z. (1960), #10604.

Laha, R. G. (1964)
On a problem connected with beta and gamma distributions. (See the review for some mistakes.) Trans. Amer. Math. Soc., 113, 287-298.
Review: ZBL 138, 411-412.

Laha, R. G., and Lukacs, E. (1965)
On a linear form whose distribution is identical with that of a monomial. Pacific J. Math., 15, 207-214.

Laha, R. G., and Lukacs, E. (1967)
On linear forms and stochastic integrals. Bull. Int. Statist. Inst., 41, 828-840.

Lamperti, John (1967)
Continuous state branching processes. Bull. Amer. Math. Soc., 73, 382-386.
Review: MR 34 (1967) #8494.

Lancaster, H. O. (1960)
The characterisation of the normal distribution. J. Austr. Math. Soc., 1, 368.

Laurent, A. G. (1965)
Probability distributions, factorial moments, empty cell test. Classical and Contagious Discrete Distributions, Ed. G. P. Patil, Statistical Publishing Society, Calcutta and Pergamon Press, pp. 437-442.

Laurent, A. G., and Gupta, R. (1970)
A characterization of the geometric distribution.
Abstract: Ann. Math. Statist., 41, 1393.

Lee, P. M. (1967)
Infinitely divisible stochastic processes. Z. Wahrscheinlichkeitheorie und Verw. Gebiete 7, 147-160.
Review: MR 34 (1967) #8477

Leslie, R. T. (1967)
Recurrent composite events. J. Appl. Probability, 4, 34-61.
Review: MR 34 (1967) #8440.

Lewis, T. (1967)
The factorisation of the rectangular distribution. J. Appl. Prob., 4, No. 3, 529-542.
Review: R. Z. (1968), #10B12.

Lindley, D. V. (1958)
Fiducial Distributions and Bayes' theorem. J. R. S. S., Ser. B., 20, 102-107.

Ling, K. D. (1968/69)
Distributions of [kX] and [X + λ] of a continuous random variable X and its application in characterization problem. Nanta Math. 3, 116-138.
Review: ZBL (1970), p. 515.

Linnik, Yu. V. (1952)
Linear statistics and the normal distribution law. Doklady Akademii Nauk SSSR 83, 353-355. (English transl. Am. Math. Soc., 1961)
Review: MR (1953) #60.

Linnik, Yu. V. (1953)
On some identically distributed statistics (Russian). Doklady Akad. SSR, 89, 9-11.
Review: R. Z. (1954), 345.

Linnik, Yu. V. (1953)
Linear forms and statistical criteria I anc II (in Russian - available in Selected translations in Math. Stat. Prob. 3, Amer. Math. Soc. 1962). Ukrain Mat. Zhurnal, 5, 207-243 and 247-290.

Linnik, Yu. V. (1956)
On polynomial statistics in connection with the analytic theory of differential equations. Vestnik Leningrad. Univ. 11, 35-48.
Review: MR (1956) 17, p. 983.

Linnick, Yu. V. (1957)
Some theorems on the factorization of infinitely divisible laws. Dokl. Akad. Nauk SSSR, 116, 549-551.

Linnik, Yu. V. (1957)
On the factorization of infinitely divisible laws (Russian). Dokl. Akad. Nauk SSSR, 116, 735-737.

Linnik, Yu. V. (1958)
General theorems on the factorization of infinitely divisible laws. Teor. Verojatnost. i Primenen., 3, 3-40.
Review: ZBL 94 (1962), 325.

Linnik, Yu. V. (1959)
General theorems of the factorization of infinitely divisible laws. Teor. Verojatnost., i Primenen., 4, 55-85.
Review: IJA 1 (1960), 577 ; ZBL 94 (1962), 325.

Linnik, Yu. V. (1959)
General theorems on the factorization of infinitely divisible laws. III. Sufficient conditions (countable bounded Poisson spectrum; unbounded spectrum; "stability"). Teor. Verojatnost. i Primenen., 4, 150-171.

Linnik, Yu. V. (1960)
Decomposition of Probability Distributions. (English translation 1964) Oliver & Boyd.

Linnik, Yu. V. (1963)
Linear forms and statistical criteria, I, II. Selected Translation in Mathematical Statistics and Probability, 3, 1-40 and 41-90.

Linnik, Yu. V. (1965)
Characterization of tests of the Bartlett-Scheffé type. Proceedings of the Steklov Instl of Math. #79.
Review: MR 34 (1967) # 5113b.

Linnik, Yu. V. (1970)
On an application of number theory to mathematical statistics. Matematicheskie Zametki, 7, 383-388.

Loeve, M. (1963)
Probability Theory (3rd ed.) Van Nostrand

Lovin, B. Ja. (1964)
Distribution of Zeros of Entire Functions (translated from Russian). Amer. Math. Soc. Prov.

Lugannani, Robert ; Thomas, John B. (1967)
On a class of stochastic process which are closed under linear transformations. Information and Control, 10, 1-21.
Review: MR 35 (1968) #1080.

Lukacs, E. (1942)
A characterization of the normal distribution. Ann. Math. Statist., 13, 91-93.
Review: MR 4 (1943), p. 16 ; ZBL 60 (1957), p. 285.

Lukacs, E. (1954)
Sur une caracterisation de la distribution de Poisson. C. R. Acad. Sci. Paris, 239, 1114-1116.
Review: MR 16 (1955), 377 ; ZBL 58 (1958), 342.

Lukacs, E. (1955)
Applications of Faa di Bruno's formula in mathematical statistics. Amer. Math. Monthly, 62, 340-348.
Review: MR (1955) #1037

Lukacs, E. (1954)
Sur une propriété de la loi de Gauss-Laplace. C. R. Acad. Sci., 238, 444-445.
Review: R. Z. (1955) #5668.

Lukacs, E. (1955)
A characterization of the Gamma distribution. Ann. Math. Stat., 26. 319-324.
Review: MR 16(1955), 1034 ; R. Z. (1956) #3170 ; ZBL 65(1956) p. 111.

Lukacs, E. (1956)
Characterization of populations by properties of suitable statistics. Proc. 3rd Berkeley Sympos. Math. Stat. and Probability, Vol. 2, pp. 195-214.
Review: R. Z. (1957), No. 7167.

Lukacs, E. (1960)
On the characterization of a family of populations which includes the Poisson population (Abstract). Ann. Math. Statist., 31, 239.

Lukacs, E. (1960-1961)
On the characterization of a family of populations which includes Poisson populations. Ann. Univ. Scient. Budapest. Sec. Math. 3-4, 159-175.
Review: MR 25(1963) #3083 ; R. Z. (1962) #10B7.

Lukacs, E. (1965)
Characterization problems for discrete distributions. Classical and Contagious Discrete Distribution, Ed. G. P. Patil, Statistical Publishing Society, Calcutta and Pergamon Press, pp. 65-74. Reprinted in Sankhyā A, 27 (1966).

Lukacs, E. & Laha, R. G. (1964)
Applications of Characteristic Functions. Griffin's Stat. Mono.

-M-

Mallows, C. L. (1968)
An inequality involving multinomial probabilities. Biometrika, 55, 422-424.

Malmquist, S. (1950)
On a property of order statistics from a rectangular distribution. Skand. Aktuar., 33, 214-222.
Review: MR 12 (1951), p. 725.

Marcinkiewicz, J. (1949)
Sur une properiété de la loi de Gauss. Math. Zeitschr., 44, pp. 612-618.

Mathai, A. M. (1966)
Some characterizations of the one-parameter family of probability distributions. Canad. Math. Bull., 9, 95-102.
Review: STMA (1967), 8/872; MR 35 (1968) #1057.

Mathai, A. M.; Saxena, R. K. (1966)
On a generalized hypergeometric distribution. Metrika, 11, 127-132.
Review: MR 34 (1967) #8529.

Mauldon, J. G. (1956)
Characterizing properties of statistical distributions. Quart. J. Math., Oxford Ser (2), 7, 155-160.
Review: MR 20, (1959) #4884.

Mehr, C. B. (1967)
Characterization of a class of second order density functions. J. Appl. Prob., 4, 123-129.

Menon, M. V. (1962)
A characterization of the Cauchy distribution. Ann. Math. Statist., 33, 1267-1271.
Review: MR 25 (1963), No. 5532.

Menon, M. V. (1966)
Characterization theorems for some univariate probability distributions. J. Roy. Statist. Soc. Ser. B., 28, 143-145.
Review: MR 35 (1968) # 1058.

Menon, M. V. (1966)
Another characteristic property of the Cauchy distribution. Ann. Math. Statist., 37, 289-294.
Review: MR 32 (1966), No. 3095

Meshalkin, L. D. (1968)
On the robustness of some characterizations of the normal distribution. Ann. Math. Statist., 39, 1747-1750.

Mohan, N. R. A. (1969)
A characterization of the normal law. Ann. Inst. Statist. Math., Tokyo, 21, 529-532.
Review: R. Z. 17 (1970), No. 9B3.

Moran, P. A. P. (1952)
A characteristic property of the Poisson distribution. Proc. Cambridge Philos. Soc., 48, 206-207.
Review: ZBL 47 (1953), 373.

Mosimann, J. E. (1962)
On the compound multinomial distribution, the multivariate β, and correlations among proportions. Biometrika, 49, 65-82.

Mosiman, J. E. (1963)
On the compound negative multinomial distribution and correlations among inversely sampled pollen counts. Biometrika, 50, 47-54.

Murthy, V. K., and Rao Uppuluri, V. R. (1965)
An extension of Ferguson's characterization of the geometric distribution (Abstract). Ann. Math. Statist., 36, 1603-1604.

-N-

Nabeya, S. (1950)
On a relation between exponential law and Poisson's law. Ann. Inst. Statist. Math., Tokyo, 2, 13-16.
Review: MR (1951) #424.

Nagaev, S. V. ; Munin, A. B. (1966)
A case of convergence to the uniform distribution on a segment (Russian). Limit Theorems Statist. Inference, pp. 113-117. Izdat. "Fan", Tashkent.
Review: MR 34 (1967) #6842.

Nair, K. R. (1948)
The studentized form of the extreme mean square test in the analysis of variance. Biometrika, 35, 16-31.

Neyman, Jerzy (1965)
Certain chance mechanisms involving discrete distributions. Sankhyā Ser. A., 27, 249-258.
Review: MR 35 (1968) #2317 & 2318.

Nicholson, W. L. (1961)
Occupancy probability distribution critical points. Biometrika, 48, 175-180.

-O-

Olkin, Ingram ; Sobel, Milton (1965)
Integral expressions for tail probabilities of the multinomial and negative multinomial distributions. Biometrika, 52, 167-179.
Review: MR 34 (1967) #6895.

Ostrovskii, I. V. (1965)
The multidimensional analogue of Yu. V. Linnik's theorem on decompositions of a convolution of Gaussian and Poisson laws. Theor. Probability Appl, 10, 673-677.

Mosimann, J. E. (1962)
On the compound multinomial distribution, the multivariate β, and correlations among proportions. Biometrika, 49, 65-82.

Mosiman, J. E. (1963)
On the compound negative multinomial distribution and correlations among inversely sampled pollen counts. Biometrika, 50, 47-54.

Murthy, V. K., and Rao Uppuluri, V. R. (1965)
An extension of Ferguson's characterization of the geometric distribution (Abstract). Ann. Math. Statist., 36, 1603-1604.

-N-

Nabeya, S. (1950)
On a relation between exponential law and Poisson's law. Ann. Inst. Statist. Math., Tokyo, 2, 13-16.
Review: MR (1951) #424.

Nagaev. S. V. ; Muhin, A. B. (1966)
A case of convergence to the uniform distribution on a segment (Russian). Limit Theorems Statist. Inference, pp. 113-117. Izdat. "Fan", Tashkent.
Review: MR 34 (1967) #6842.

Nair, K. R. (1948)
The studentized form of the extreme mean square test in the analysis of variance. Biometrika, 35, 16-31.

Neyman, Jerzy (1965)
Certain chance mechanisms involving discrete distributions. Sankhyā Ser. A., 27, 249-258.
Review: MR 35 (1968) #2317 &2318.

Nicholson, W. L. (1961)
Occupancy probability distribution critical points. Biometrika, 48, 175-180.

-O-

Olkin, Ingram ; Sobel, Milton (1965)
Integral expressions for tail probabilities of the multinomial and negative multinomial distributions. Biometrika, 52, 167-179.
Review: MR 34 (1967) #6895.

Ostrovskii, I. V. (1965)
The multidimensional analogue of Yu. V. Linnik's theorem on decompositions of a convolution of Gaussian and Poisson laws. Theor. Probability Appl, 10, 673-677.

Ostrovskii, I. V. (1965)
The multidimensional analog of Yu. V. Linnik's theorem of decompositions of a composition of Gaussian and Poisson Laws (Russian, English summary). Teor. Verojatnost. i Primenen, 10, 742-745.

Owen, D. B. (1965)
A special case of a bivariate non-central t-distribution. Biometrika, 52, 437-446.
Review: MR 34(1967) #5190.

-P-

Pakshirajan, R. P., and Mohan, N. R. (1969)
A characterization of the normal law. Ann. Inst. Stat. Math., Tokyo, 24, 529-532.

Parthasarathy, K., Ranga Rao, and Varadhan, S. R. S. (1962)
On the category of indecomposable distributions on topological groups. Trans. Am. Math. Soc., 102, 202-217.

Paskevich, V. S. (1953)
On a property of control charts used in quality control. Prikladnaya Matematika i Me Khanika, 17, 49-57. (in Russian).
Review: R. Z. (1953) #1311.

Pathak, P. K., and Pillai, R. N. (1968)
On a characterization of the normal law. Sankhyā, Series A, 30, 145-146.
Review: STMA 11 (1970), 11/473 - 11/474.

Patil, G. P. (1960)
Generalized power series distribution and certain characterization theorems (Abstract). Ann. Math. Statist., 31, 240.

Patil, G. P. (1962)
Certain properties of the generalized power series distribution. Ann. Inst. Statist. Math, Tokyo, 14, 179-182.
Review: STMA 5 (1964), 35.

Patil, G. P. (1963)
A characterisation of the exponential-type distribution. Biometrika, 50, 205-207.
Review: ZBL 114 (1965), 338.

Patil, G. P. (1965)
On a characterization of multivariate distribution by a set of its conditional distributions. 35th Session of the ISI, Preprint 94, Beograd.

Patil, G. P. (1965)
Certain characteristic properties of multivariate discrete probability distributions akin to the Bates-Neyman model in the theory of accident proneness (Abstract). Biometrics, 21, 765.

Patil, G. P. (1965)
Certain characteristic properties of multivariate discrete probability distributions akin to the Bates-Neyman model in the theory of accident proneness. Sankhyā, Ser. A, 27, 259-70.

Patil, G. P. (1965)
On multivariate generalized power series distribution and its applications to the multinomial and negative multinomial. Classical and Contagious Disc. Dist. Int. Sym., McGill Univ., Mont. Que., pp. 183-194.
Also Sankhyā, Ser. A, 28 (1966), 225-238 ; MR 34 #8543.
Review: MR 35 (1968) #2393.

Patil, G. P., and Bildikar, Sheela (1966)
Identifiablity of countable mixtures of discrete probability distributions using methods of infinite matrices. Proc. Camb. Phil. Soc., 62, 485-494.

Patil, G. P., and Boswell, M. T. (1970)
A characteristic property of the multivariate normal distribution and some of its applications. Ann. Math. Statist., 41, 1970-1977.

Patil, G. P., and Seshadri, V. (1964)
A characterization of a bivariate distribution by the marginal and the conditional distributions of the same component. Ann. Inst. Statist. Math. Tokyo, 15, 215-221.
Review: MR 30 (1965), 811.

Patil, G. P., and Seshadri, V. (1964)
Characterization theorems for some univariate probability distributions. J. Roy. Statist. Soc. Ser. B, 26, 286-292
Review: MR 30 (1965), 311 ; STMA 6 (1965), 453 ; ZBL 123 (1966), 365.

Patil, G. P., and Shorrock, Richard (1965)
On certain properties of the exponential families (Abstract). Ann. Math. Statist., 36. 1594.

Patil, G. P., and Shorrock, Richard (1965)
On certain properties of the exponential-type families. J. Roy. Statist. Soc. Ser. B, 27, 94-99.
Review: MR 32 (1966), 796.

Pfanzagl, J. (1967)
Characterizations of conditional expectations. Ann. Math. Statist., 38, 415-421.
Review: MR 35 (1968) #2310.

Pillai, K. C. Sreedharan (1966)
Noncentral multivariate beta distribution and the moments of traces of some matrices. Multivariate Analysis (Proc. Internat. Sympos., Dayton Ohio, 1965), pp. 237-251, Academic Press.
Review: MR 35 (1968) #1141.

Pillai, R. N. (1968)
On some characterizations of the normal law. Sankhyā, A., 30, 141-144.

Pitman, E. J. G. (1937)
The closest estimates of statistical parameters. Proc. Cambridge Philos. Soc., 33, 212-222.

Pitman, E. J. G., and Williams, E. J. (1967)
Cauchy-distributed functions of Cauchy variates. Ann. Math. Statist., 38, 916-918.
Review: MR 35(1968) #1060.

Plachky, D. (1966)
Charakterisierung von Exponentialfamilien. Z. Angew. Math. und Mech., 46, Sonaerh., 105-106.
Review: R. Z. (1968), No. 4B18.

Pollard, H. (1953)
Distribution functions containing a Gaussian factor. Proc. Amer. Math. Soc., 4, 578-582.
Review: R. Z. (1954), #2636, p. 39.

Prohorov, Yu. V. (1965)
A characterization of a class of probability distributions by the distributions of certain statistics. Theor. Prob. Appl., 10, 438-445.
Review: MR 35(1968) #2320.

Prohorov, Yu. V. (1965/66)
Some characterization problems in statistics. 1965/66 Proc. Fifth Berkeley Sympos. Math. Statist. and Probability, Vol I, pp. 341-349.
Review: MR 35(1968) #3804.

Prohorov, Yu. V., and Fisz, M. (1957)
A characterization of normal distributions in Hilbert space. Teor. Verovatnost. i Primenen., 2, 475-477.
Review: MR (1959) #338.

Prokhorov, Y. V. (1965)
On a characterization of a class of probability distributions by distributions of some statistics. Theor. Prob. Appl., 10, 438-445.

Puri, Prem S., and Rubin, H. (1970)
A characterization based on the absolute difference of two i. i. d. random variables. Ann. Math. Statist., 41, 2113-2122.

Puri, P. S. (1970)
Characterization of distributions via order statistics.
Abstract: Ann. Math. Statist., 41, 1154

Ramachandran, B. (1960)
On the decomposition of certain characteristic functions (Abstract). Ann. Math. Statist, 31 240.

Ramachandran, B. (1967)
Advanced Theory of Characteristic Functions, Stat. Pub. Soc. Calcutti.

Ramachandran, B. (1969)
On characteristic functions and moments. Sankhyā A31, 1-12.

Ramachandran, B., and Rao, C. R. (1968)
Some results on characteristic functions and characterizations of the normal and generalized stable laws. Sankhyā, Series A, 30, 125-140.

Ramachandran, B., and Rao, C. R. (1970)
Solutions of functional equations arising in some regression problems, and a characterization of the Cauchy law. Sankhyā, 32, 1-30.
Abstract: Sankhyā Ser. A 31(1969), p. 374.
Review: MR (1970), No. 3636.

Ramachandran, K. V. (1958)
On the studentized smallest chi-square. JASA, 53, 868-872.

Ramachandran, K. V., and Khatri, C. G. (1956)
On certain problems in quality control. Indian Soc. Qual. Control Bull., 3, 51-55.

Rao, C. R. (1965)
Linear Statistical Inference and its Applications, John Wiley.

Rao, C. R. (1966)
Characterisation of the distribution of random variables in linear structural relations. Sankhyā Ser. A., 28, 251-260.
Review: MR 35(1968) #1142.

Rao, C. R. (1967)
On some characterizations of the normal law. Sankhyā Ser. A., 29, 1-14.
Review: R. Z. 15(1968), No. 12B109 ; MR (1968), No. 4611 ; STMA (1969), No. 10/770.

Rao, C. R. (1969)
On vector variables with a linear structure and a characterization of the multivariate normal distribution. Bull. Int. Statist. Inst., 42, 1207-1212.
Review: R. Z. 17(1970), No. 9B4.

Rao, C. R. (1969)
Some characterizations of multivariate normal distribution. Multivariate Analysis, II, Academic Press, N. Y.

Rao, C. R., Kagan, A. M., and Linnik, Yu. V. (1965)
On some characterizations of the normal law, based on a property of the sample average. Sankhyā, Ser. A., 29, 1-13.
Review: MR (1967), No. 884.

Rao, C. R., and Rubin, Herman (1964)
On a characterization of the Poisson distribution. Sankhyā-A, 26, 295-298
Review: MR 32 (1966), 210.

Rao, J. N. K. (1958)
A characterization of the normal distribution. Ann. Math. Statist., 29, 914-919.
Review: MR (1959), #328 ; R. Z., #8235.

Rao, M. M. (1963)
Characterizing normal law and a nonlinear integral equation. J. Math. Mech., 12, 869-880.

Rao, Prakasa B. L. S. (1968)
On a characterization of symmetric stable processes with finite mean. Ann. Math. Statist., 39, 1498-1501.

Rao, Prakasa B. L. S. (1970)
On a characterization of the Wiener process by constant regression. Ann. Math. Statist., 41, 321-325.

Rao, V. R. (1964)
A characterization of the geometric distribution (Abstract). Ann. Math. Statist., 35, 1841.

Rappeport, M. (1967)
Multinomial ordered values — distributions and tests. Tech. Memo. MM-67-3142-2, Bell Telephone Lab., Holmdel, N. J.

Reiersol, O. (1950)
Identifiability of a linear relation between variables which are subject to error. Econometrica, 18, 375-389.

Reinhardt, H. E. (1968)
Characterizing the exponential distribution. Biometrics, 24, 437-438.

Rényi, A. (1956)
A characterization of Poisson processes (Hungarian). Magyar. Tud. Akad. Mat. Kutató Int. Közl., 1, 519-527.
Review: ZBL 103 (1964), 115.

Rogers, G. S. (1963)
On alternate proof of the characterization of the density Ax^B. Am. Math. Monthly, 70, 857-858.

Rosenberg, L. (1965)
Nonnormality of linear combinations of normally distributed random variables. Amer. Math. Monthly, 72, 888-890.
Review: R. Z. B12

Rossberg, H.-J. (1966)
Problems of characterization which arise from a method introduced by A. Rényi in the theory of order statistics. Monatsber. Dtsch. Akad. Wiss. Berlin, 8, 561-572.
Review: STMA (1968), 9/651.

Rossberg, H. J. (1966)
Charakterisierungsprobleme, die sich aus der von A. Rényi in die Theorie der Ranggrössen eingeführten Methode ergeben. Monatsb. Deutsch. Akad. Wiss. Berlin, 8, 561-572.
Review: MR (1968), #1062.

Roy, L. K., and Wasan, M. T. (1969)
A characterization of the inverse Gaussian distribution. Sankhyā, Ser. A., 31, 217-218.
Review: R. Z. (1970), #5B120.

Rubin, Herman (1960)
Application to stochastic processes of a uniqueness property of the rectangular distribution.
Abstract: Ann. Math. Statist., 31, 242.

-S-

Sarndal, Carl-Erik (1965)
Derivation of a class of frequency distributions via Baye's theorem. JRSS B, 27, 290-300.
Review: MR 34 (1967), No. 5191.

Sé-Hark, Park (1969)
Characteristics of some bivariate distributions with different marginal distributions. Trab. Estadist. y Invest. Oper., 20, 85-102.
Review: R. Z. (1970), #3B15.

Seal, K. C. (1957)
On a characterization of gamma distributions. Calcutta, Stat. Assoc. Bull., 7, 60-72.
Review: MR 19 (1958), p. 184.

Seshadri, V. (1964)
A characterization of the logarithmic and geometric distributions.
Abstract: Ann. Math. Statist., 35, 1841.

Seshadri, V. (1966)
A characteristic property of the multivariate normal distribution. Ann. Math. Statist., 37, 1829-1831.
Review: STMA (1970), 11/1162.

Seshadri, V. (1968)
A characterization of the normal and Weibull distributions. Canad. Math. Bull., 12, 257-260.

Sethuraman, J. (1965)
On a characterization of the three limiting types of the extreme. Sankhyā, Ser. A., 27, 357-364.

Shanbhag, D. N. (1970)
Another characteristic property of the Poisson distribution. Proc. Camb. Philos. Soc., 68, 167-169.
Review: MR 41 (1971), #7740.

Shanbhag, D. N. (1970)
Characterizations for exponential and geometric distributions. JASA, 65, 1256-1259.

Shapiro, J. M. (1966)
On analytic properties of infinitely divisible distributions. J. Math. Sci., 1, 94-97.
Review: MR 34 (1967), #5134.

Shenton, L. R., and Carpenter, J. A. (1965)
The Mills ratio and probability integral for a Pearson type IV distribution. Biometrika, 52, 119-126.
Review: MR 34 (1967), #6834

Sheps, Mindel C. (1966)
Characteristics of a ratio used to estimate failure rates: occurrences per person year of exposure. Biometrics, 22, 310-321.
Review: MR 34 (1967), #5245.

Shimizu, R. (1961)
Characterization of the normal distribution I. Ann. Inst. Stat. Math., 13, 53-56.
Review: MR 24, #A1764 ; R. Z. #5B11.

Shimizu, R. (1962)
Characterization of the normal distribution, II. Ann. Inst. Statist. Math., 14, 173-178.
Review: MR (1963), #7073 ; R. Z. (19), #1B20.

Shimizu, R. (1968)
Characteristic functions satisfying a functional equation. I. Ann. Inst. Statist. Math., 20, 187-209.
Review: MR 37 (1969), #6981.

Shimizu, R. (1969)
Characteristic functions satisfying a functional equation. II. Ann. Inst. Statist. Math., 21, 391-405.
Review: MR 41 (1970), #7745.

Skibinsky, M. (1970)
Characterization of hypergeometric distribution. JASA, 65, 926-929.

Skitovich, V. I. (1953)
On a property of a normal distribution. Doklady Akad. Nauk, 89, 217-219.
Review: R. Z. (1953), #346, p. 162.

Skitovich, V. P. (1954)
Linear forms of independent random variables and the normal distribution. Izv. Akad. Nauk SSSR, Ser. Mat., 18, 185-200.
Review: R. Z. (1955), #2312; MR 16 (1955), p. 52.

Slater, L. J. (1966)
Generalized Hypergeometric Series, Cambridge U. Press.

Sobel, M (1967)
Notes on a multiple occupancy problem. Technical Report No. 98, Department of Statistics, University of Minnesota.

Sobel, M., and Uppuluri, V. R. R. (1971)
On Bonferroni-type inequalities for the probability of a union. Technical Report No. 156, School of Statistics, University of Minnesota.

Sonis, M. G. (1966)
Certain measureable subspaces of the space of all sequences with a Gaussian measure (Russian). Uspehi Mat. Nauk, 21, 277-279.
Review: MR 34 (1967), #5148.

Sprott, D. A. (1960)
Necessary restrictions for distributions a posteriori. JRSS B 22, 312-318.
Review: R. Z. (1962), 10B59.

Srivastava, M. S. (1965)
A characterization of Pareto's distribution and $(k+1)x^k/\theta^{(k+1)}$.
Abstract: Ann. Math. Statist., 36, 361-362.

Srivastava, M. S. (1967)
A characterization of the exponential distribution. Amer. Math. Monthly, 74, 414-416.

Srivastava, R. C., and Srivastava, A. B. L. (1970)
On a characterization of Poisson distribution. J. Appl. Prob., 7, 497-501.

Steck, G. P. (1958)
A uniqueness property not enjoyed by the normal distribution. Ann. Math. Statist., 29, 604-606.
Review: MR 20 (1959), No. 4901.

Stoka, M. I. (1966)
Asupra functiei de repartitie a unei repartitie multinomiale. Studii Cercetari Mat., 18, 1281-1285.

Subrahmaniam, K. (1966)
On a general class of contagious distributions: the Pascal-Poisson distribution. Trabajos Estadist, 17, cuad. 2-3, 109-128.
Review: MR 34 (1967), #8533.

Subrahmaniam, K. (1967)
On a property the binomial distribution. Trab. Estadist., 18, 89-103.
Review: R. Z. (1968), No. 1039.

Subrahmaniam, K., and Saleh, A. K. MD. E. (1965)
Decomposition of a mixture of two Poisson distributions.
Abstract: Ann. Math. Statist., 36, 1087.

-T-

Tamhankar, M. V. (1967)
A characterization of normality. Ann. Math. Statist., 38, 1924-1927.

Tanis, E. (1964)
Linear forms in the order statistics from an exponential distribution.
Ann. Math. Statist., 35, 270-276.
Review: MR (1964), #1704.

Teicher, H. (1954)
On the factorization of distributions. Ann. Math. Statist., 25, 769-774.
Review: MR 16 (1955), 377 ; ZBL 56 (1955), 359.

Teicher, H. (1961)
Maximum likelihood characterization of distributions. Ann. Math. Statist., 32, 1214-1222.
Abstract: Ann. Math. Statist., 31 (1960), 538.
Review: R. Z. (1962), No. 7B39.

Thomas, Donald H. (1970)
A Cauchy-type functional equation and a characterization of the multivariate normal distribution. Presented at 33rd annual IMS Meeting.
Abstract: Ann. Math. Statist., 41, p. 1796.

Tiao, G. G., and Guttman, I. (1965)
The inverted Dirichlet distribution with applications. JASA, 60, 793-805.

Titchmarsh, E. C. (1939)
Theory of Functions (2nd Ed.), Oxford.

Tranquilli, Giovanni Battista (1966)
Sul teorema di Basu-Darmois (French and English summaries). Giorn. Ist. Ital. Attuari, 29, 135-152.

Troskie, C. G. (1967)
Noncentral multivariate Dirichlet distributions. South African Statist. J., 1, 21-32.

-V-

van Wijngaarden, A. (1950)
Table of the cumulative symmetric binomial distribution. Indagationes Mathematicae, 53, 1-12.

-W-

Wani, J. K. (1968)
On the linear exponential family. Proc. Camb. Phil. Soc., 64, 481-483.

Wani, J. K., and Kabe, D. G. (1970)
Note on a characterization of the inverse Gaussian distribution. Ann. Math. Statist., 41, 1071-1073.

Wani, J. K. (1970)
Moments of the Bivariate Logarithms. Skandinavisk Aktuarietidskrift, pp. 1-5.

Wendel, J. G. (1957)
Invariance of normal distributions. Michigan Math. J., 4, 173-174.
Review: R. Z. (1957), No. 1736. ; MR (1959), No. 1344.

Widder, D. V. (1946)
The Laplace Transform, Princeton U. Press.

William, E. J. (1969)
Cauchy-distributed functions and a characterization of the Cauchy distribution. Ann. Math. Statist., 40, 1083-1085.
Review: MR 39, No. 4978.

-Y-

Yasaimaibodi, H. (1970)
Characterization and characteristic functions of Dirichlet distributions.
Presented at 33rd IMS Annual Meeting.
Abstract: Ann. Math. Statist., 41, p. 1862.

Yasaimaibodi, Y. (1966)
Dirichlet distributions and their applications. M. S. Thesis, Columbian College of the George Washington University, Washington, D. C.

Yong, Chong-How (1965)
On binomial distribution. Bull. Math. Soc., Nanyang Univ., 71-75
Review: MR 34(1967), #8453.

Young, D. N. (1968)
A note on a sequential occupancy problem. Biometrika, 55, 591-593.

-Z-

Zakkula, Govindarajulu (1966)
Characterisation of the exponential and power distributions. Skand. Aktuarietidskr. 49, 132-136.

Zeigler, R. K. (1965)
A uniqueness theorem concerning moment distributions. JASA, 60, 1203-1206.

Zinger, A. A. (1956)
On a problem of A. N. Kolmogorov. Vestnik Leningradskogo Universiteta, 53-56.
Review: R. Z. (1957), No. 2237.

Zinger, A. A. (1958)
Independence of quasi-polynomial statistics and analytical properties of distributions (Russian). Teoriya Veroyatnostei i Primeneniya, 3, 265-284.
Review: MR (1960), No. 941.

Zinger, A. A., and Linnik, Yu. V. (1955)
On an analytic generalization of a theorem of Cramer and its application. Vestnik Leningrad. Univ., 10, no11, 51-56.
Review: MR 17(1956), 753.

Zinger, A. A., and Linnik, Yu.V. (1964)
A characteristic property of the normal distribution. Theory Prob. Appl., 9, 624-626.
Review: MR (1965), No. 607.

Zinger, A. A., and Linnik, Yu. V. (1967)
Polynomial statistics from a normal sample. Dokl. Akad. Nauk SSSR, 176, 766-767. (English translation, Soviet Math. Dokl., 8 (1967), 1186-1187.)
Review: MR(1968),#4675.